

METHODS AND APPARATUS FOR PERFORMING  
REMOTE ACCESS COMMANDS BETWEEN NODES

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ABSTRACT OF THE DISCLOSURE

A system, methods and apparatus perform remote access commands between  
10 nodes and allow preemption of context resources in an architecture such as Infiniband.  
The system detects an original request in a request queue for a data access task to access  
data from a first node to a second node and issues a first request from a first node to a  
second node. The first request requests the data access task be performed between the  
first node and the second node. The system receives, at the first node, a first response  
15 from the second node that partially completes the data access task. The system issues at  
least one subsidiary request from the first node to the second node to further complete the  
data access task between the first node and the second node. The subsidiary request(s)  
are based on an amount of partial completion of the data access task between the first  
node and the second node. The system receives, from the second node in response to the  
20 subsidiary request, at least one corresponding subsidiary response that further completes  
the data access task between the first node and the second node. Responses are limited in  
size to a data allotment, such that a large data access request may be broken into several  
smaller subsidiary data access request response sequences, thus allowing preemption of  
context resources in between processing of request response pairs.

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